

Fig. 1A

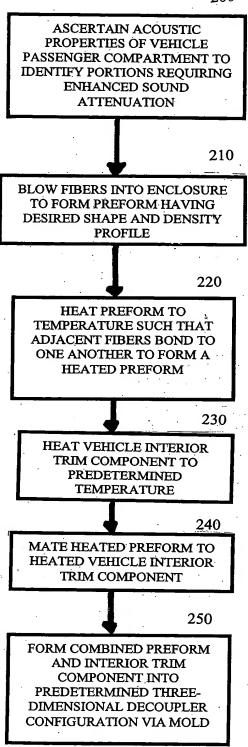
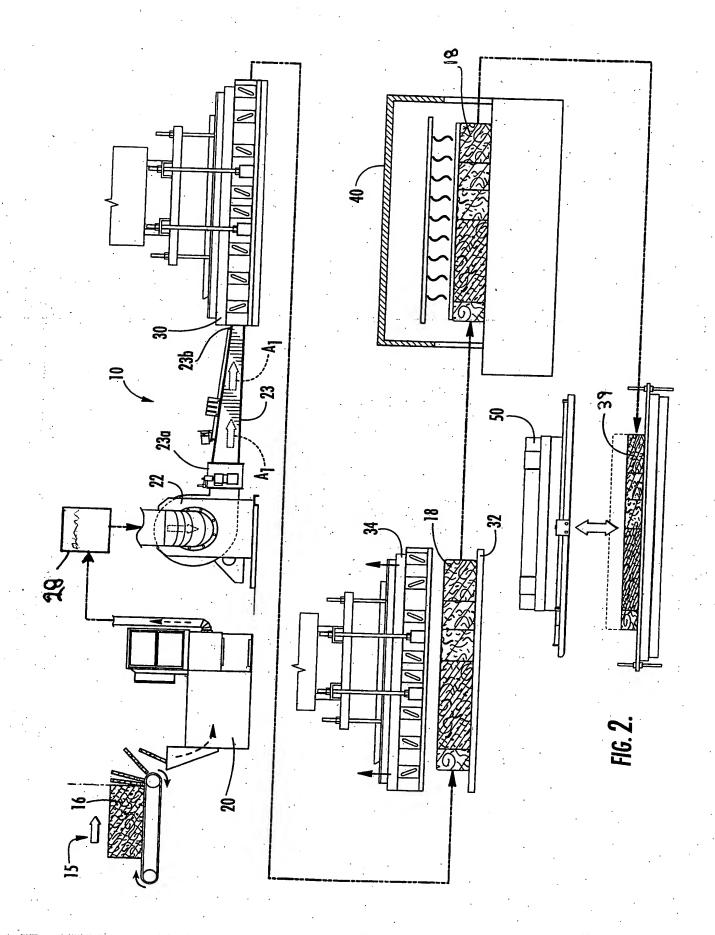
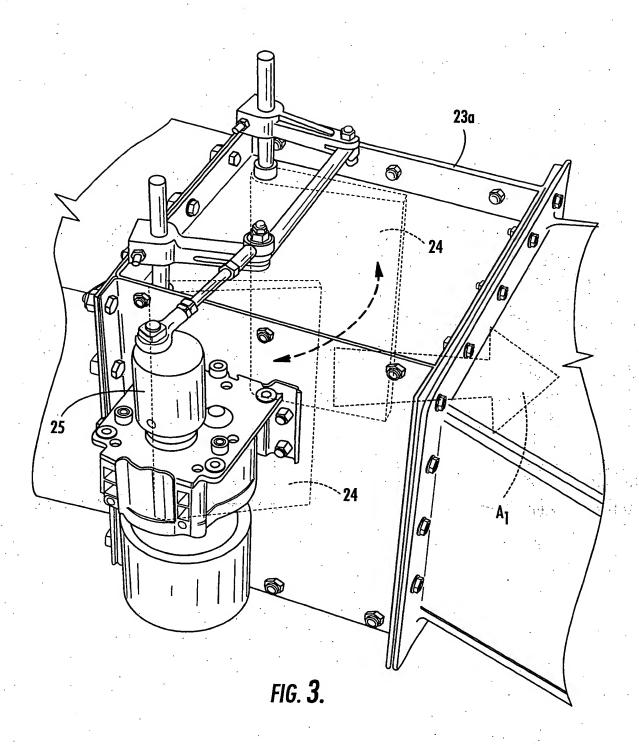
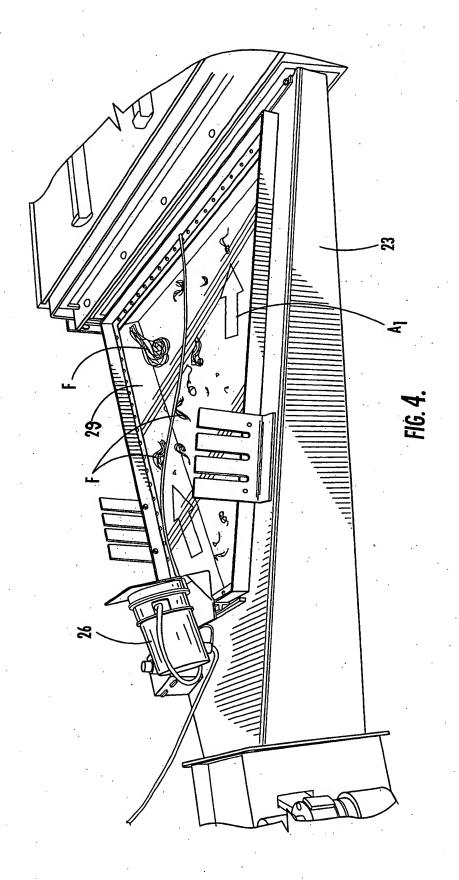
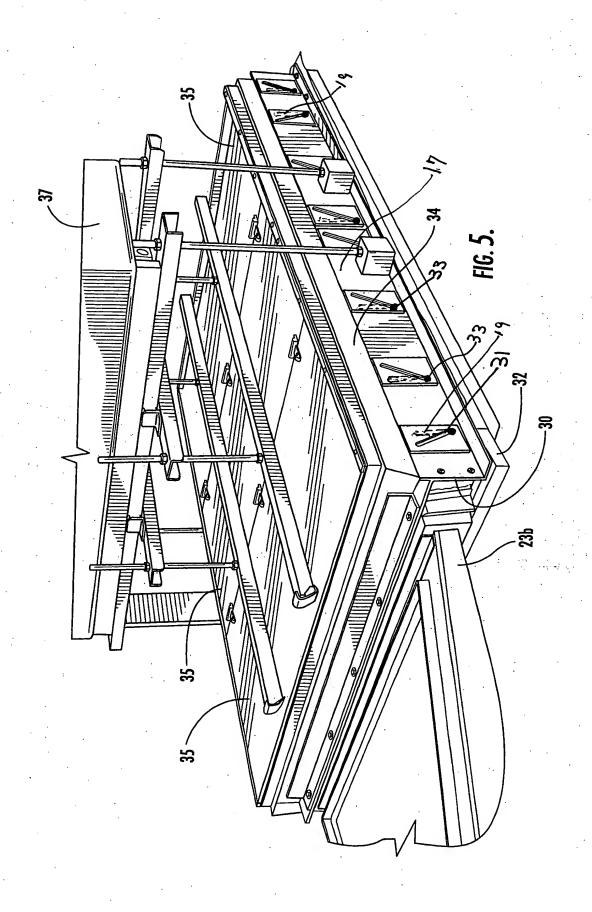


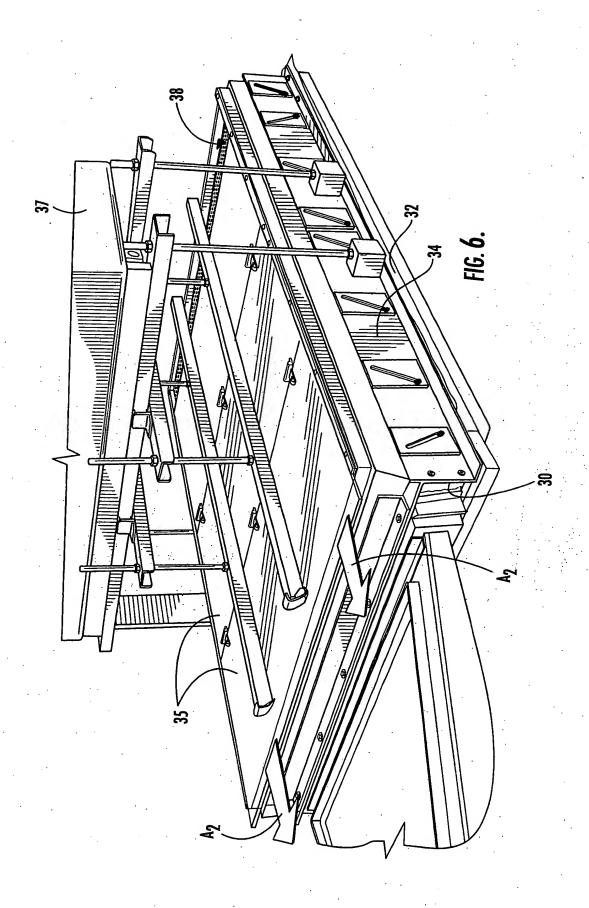
Fig. 1B

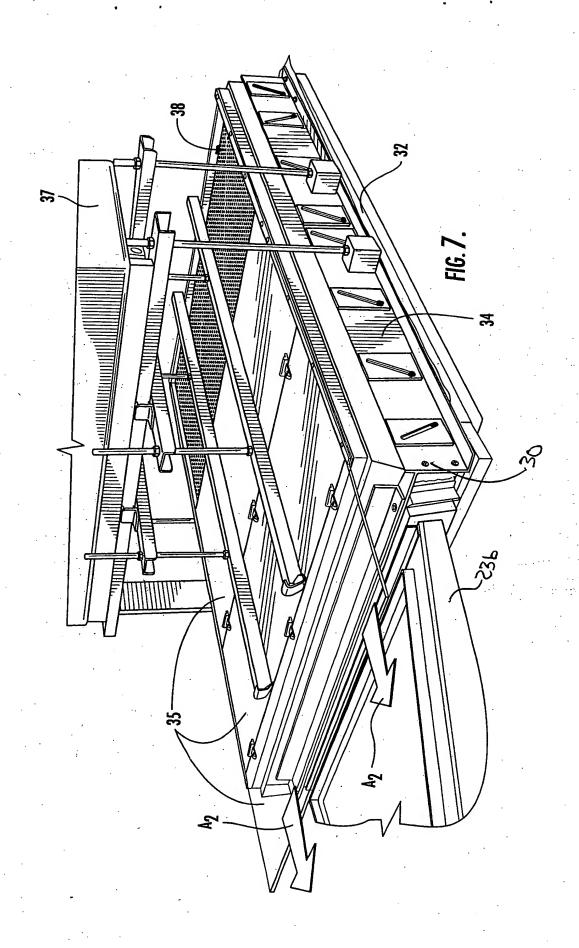


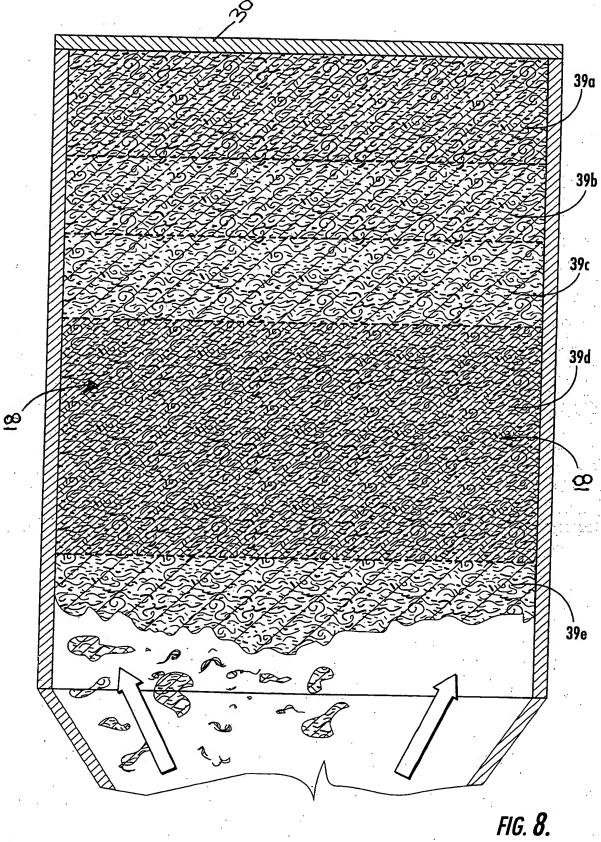


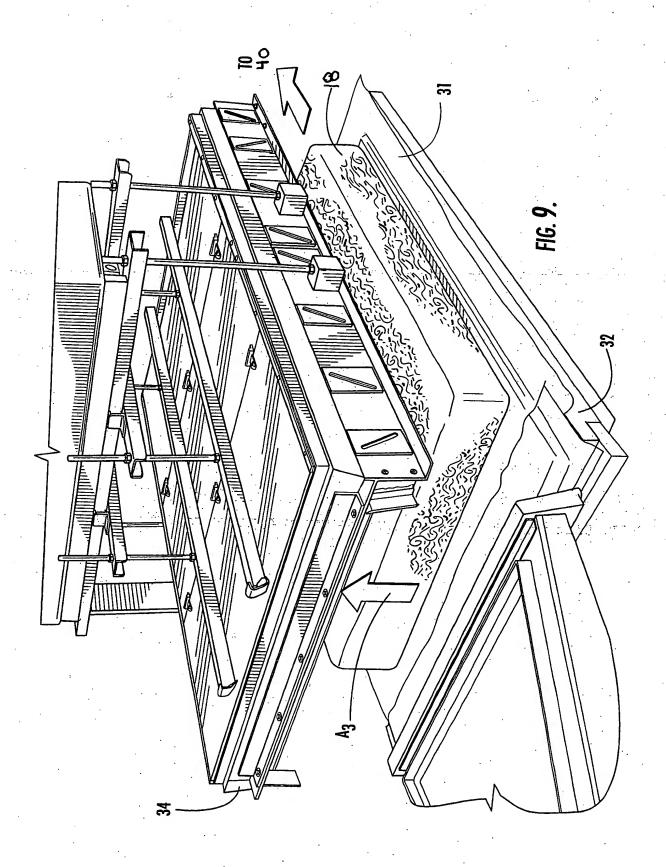


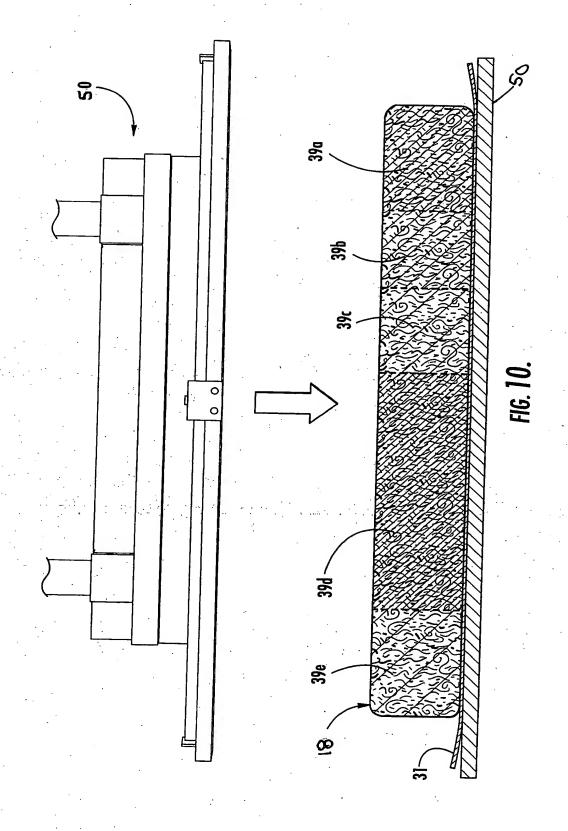


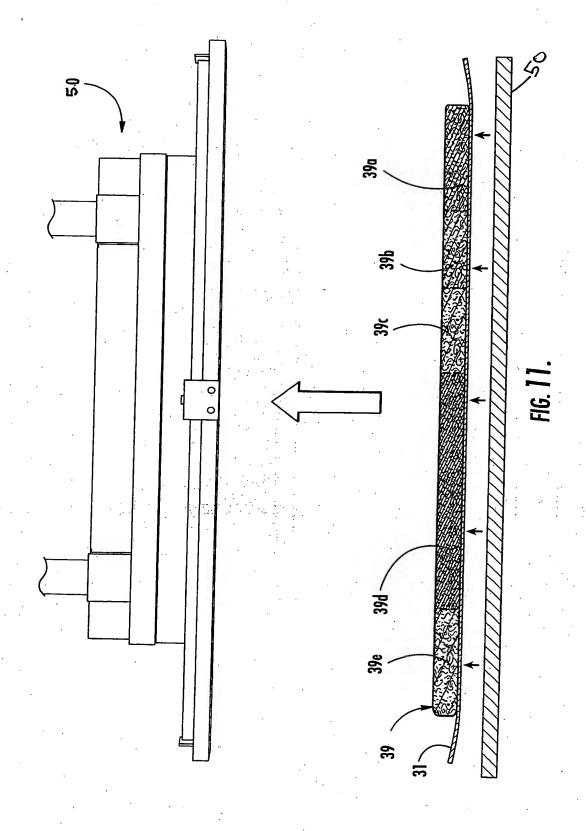


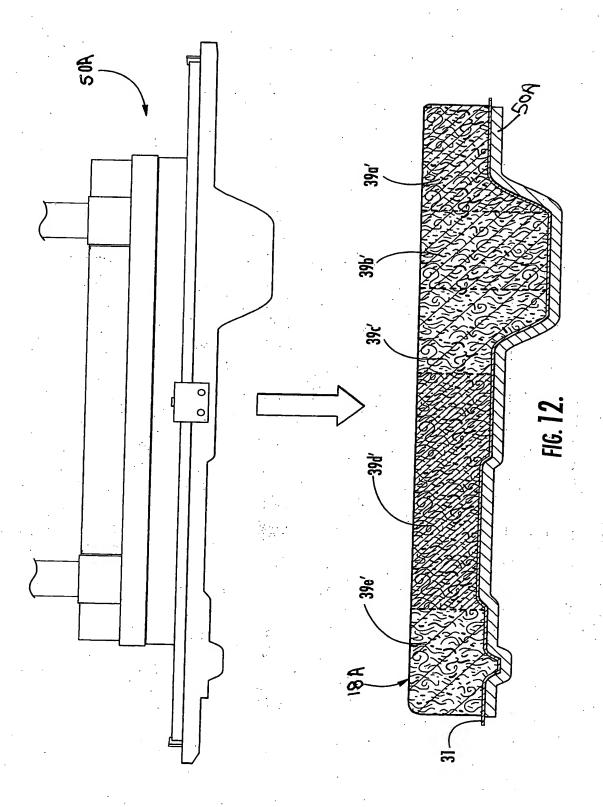


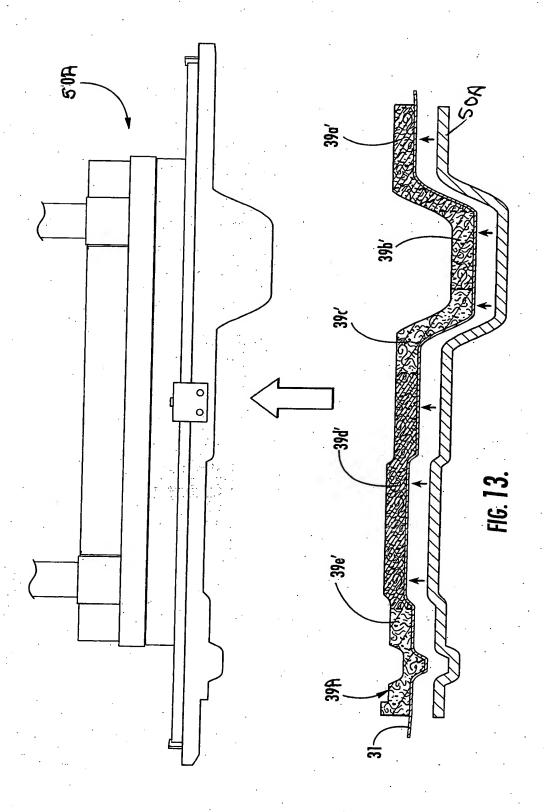


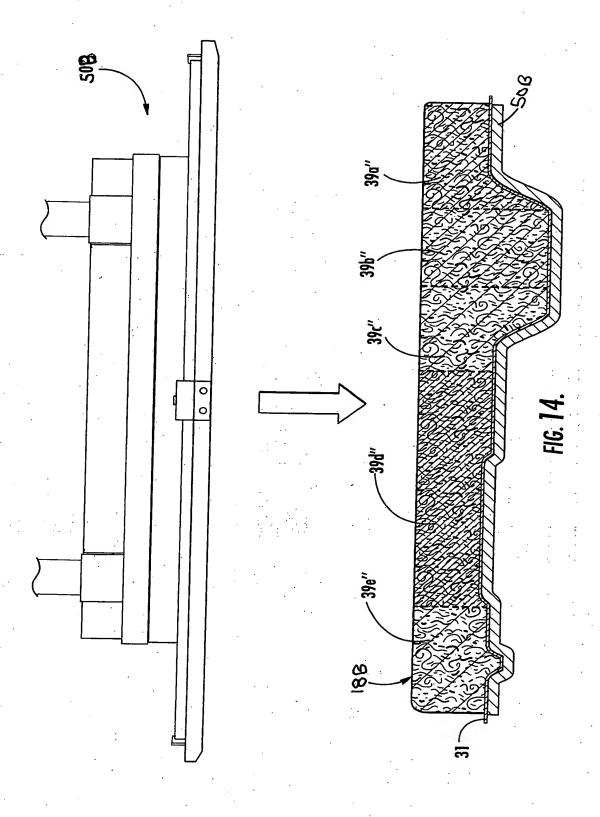


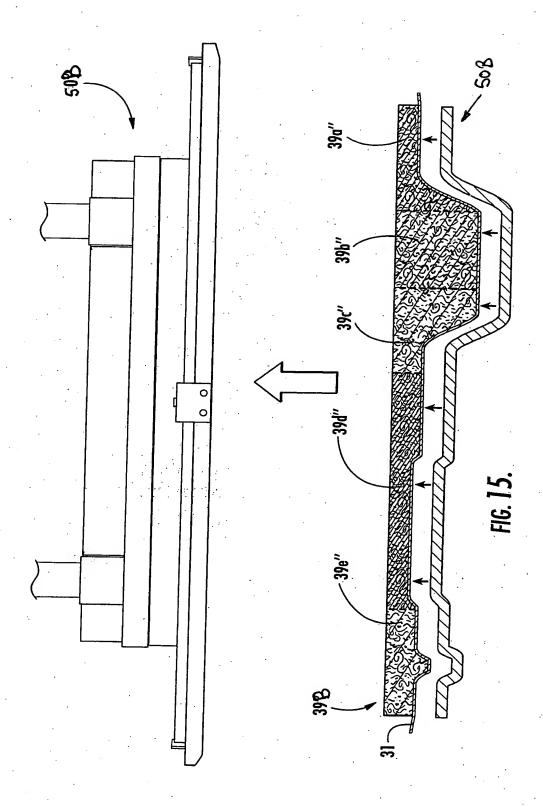


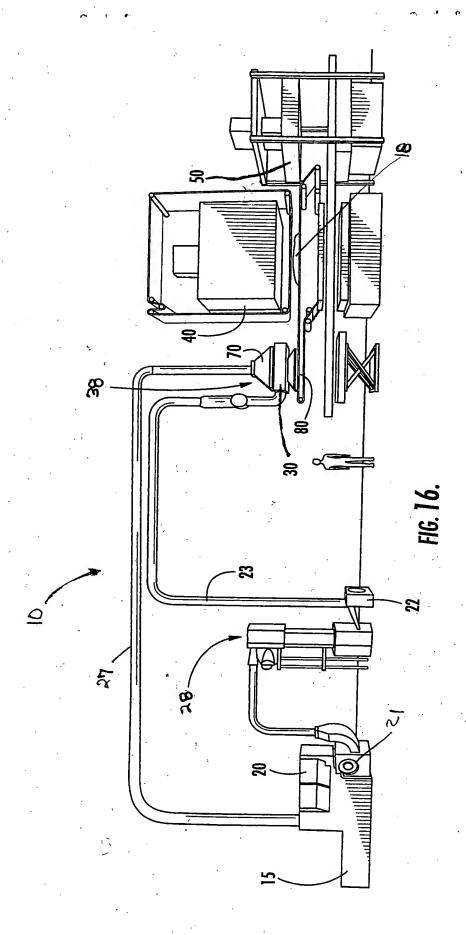


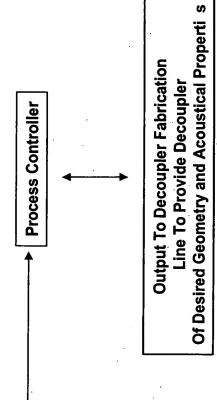












Preform Geometry

Decoupler Geometry

Desired Density in Decoupler At Selected

ocations.

Fiber Feed Rate

Fiber Composition

Softening Characteristics of Binder

Fiber Physical Characteristics (Denier)

Exposure Time For Perforated Portions of Enclosure

· Air flow Velocity & Temperature

· Vacuum/Pressure Combination In Enclosure

Dimensions of Decoupler At Selected

ocations

 Degree of Compression of Preform to Form Decoupler

· Oven Temperature & Airflow Rate

· Acoustic Characteristics of Decoupler

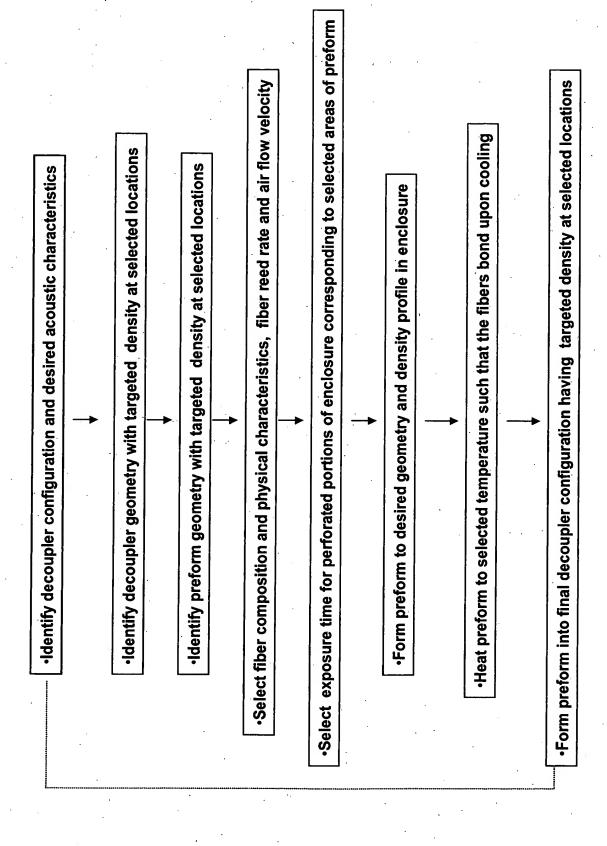


FIG. 18